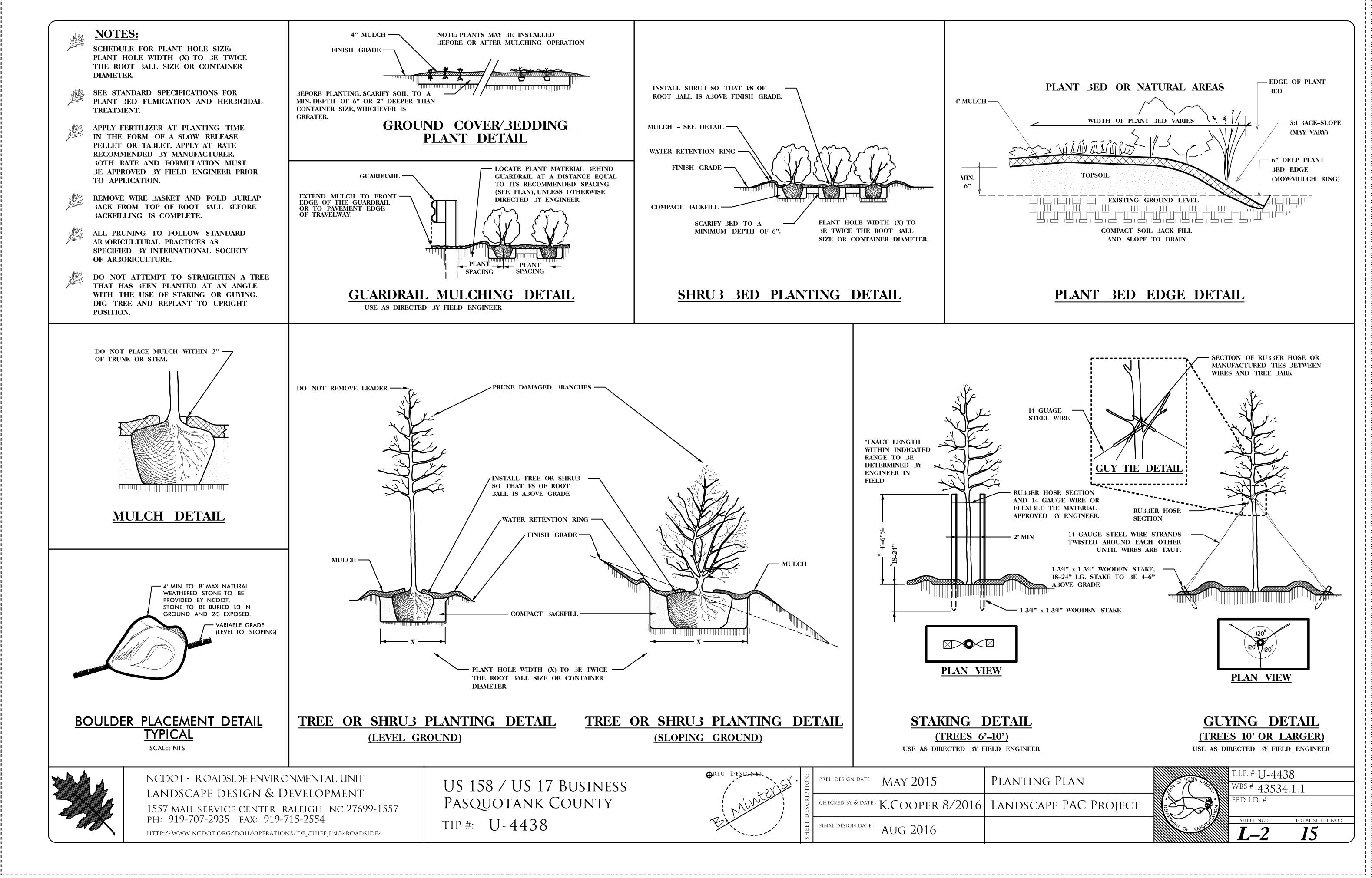


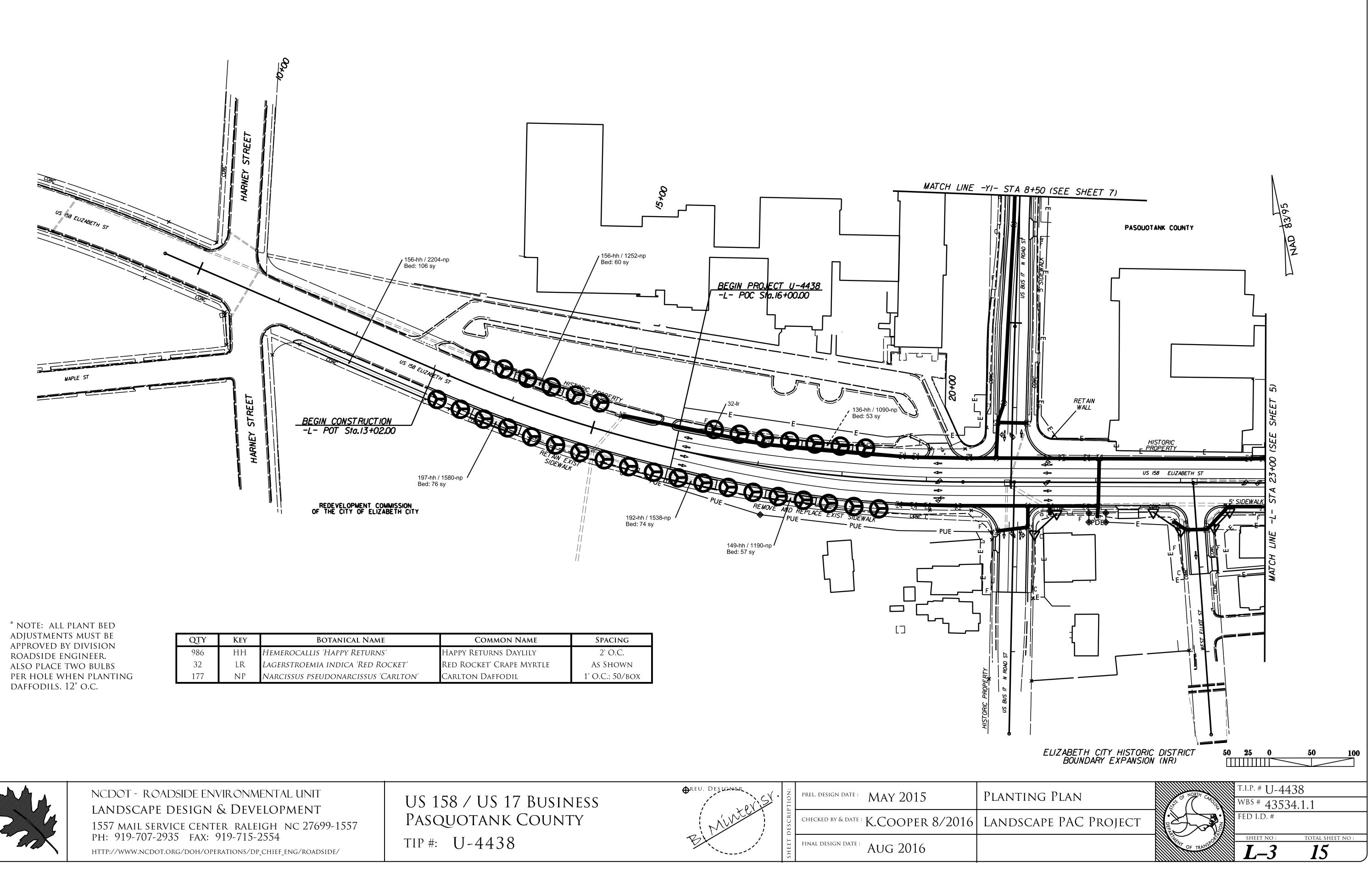


ICAL NAME	COMMON NAME	SIZE	CALIPER	FURNISH	A.S.N.S.	REMARKS
Vellie R. Stevens'	Nellie Stevens Holly	7-8'		B&B	5.8	14' O.C.
troemia indica 'Red Rocket'	Red Rocket [®] Crape Myrtle	7-8'		B&B	2.5	As Shown
ım distichum	Baldcypress	8-10'	1.25-1.5"	B&B	4.7	40' O.C.
					_	
nuta 'Carissa'	Carissa Holly	18-24"		#3 Cont.	5.6	4' O.C.
cerifera	Southern Wax Myrtle	24-30"		#3 Cont.	5.7	9' O.C.
thus x 'Fortunei'	Fortune's Tea Olive	3-4'		#10 Cont.	5.7	17' O.C.
				#10 cont.	5.7	17 0.0.
ials						
ium sempervirens	Carolina Jessamine	12-18"		#3 Cont.	13.6	2' O.C.
ocallis 'Happy Returns'	Happy Returns Daylily	6-12"		#1 Cont.	13.2.3	2' O.C.
us pseudonarcissus 'Carlton'	Carlton Daffodil	n/a		50/box	12.19.2	1' O.C.
tum alopecuroides	Fountain Grass	18-24"		#3 Cont.	13.4	3' O.C.
419 Bermuda	Tifway 419 Bermuda Sod	n/a		Sod	_	Tight Seams
for Planting						3" Depth
or Planting						
						epth in all plant b
dging		Commercia	al Grade Steel;	4" Wide; 12g; Br	own Powder C	oat Finish; 10" Sp
ivers						
all						
tile Fabric						
on						
ly Warranty Work						

T.I.P. # STATE PROJECT W.B.S. # SHEET # TOT U-4438 43534.1.1 L1 15					
FED. PROJ.# DESCRIPTION DIVE Image: Construction of the second		T.I.P. #	STATE PROJECT W.B.S. #	SHEET #	SHEET # TOTAL
	Y Ez	U-4438	43534.1.1	L1	15
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County Line. City or Trun Line. City or Trun Line. City or Trun Line. Prop. Right of Way Line Marker. By Charled Vay Line. Prop. Charled Vay Line. Easement Line. Eas	V N VA	-	TIP		1
REVISIONS DATE DESCRIPTION	Redress and the second	County Line City or Town I Exist. Right of Y Prop. Right of Y (By Others) Prop Right of Y (By Contract) Exist. Control of Prop. Control of Exist. Fence Prop. Woven Wi Prop. Chain Line Exist. Road Prop. Road Guardrail Survey Line Denotes Line Eq Bridge. Culvert Railroad Woods. Exist. Telephone Tower Pole and Exist. Power Pole Sanitary Sewer Vater Line Gas Line Prop. Power Pole Sanitary Sewer Water Line Reforestation Reforestation INDE L 1.0 TITLE L 2.0 PLAN L 3.0 - L-5 F L 6.0 - L-7 S L 8.0 - L-10 L-11 IRRIGA L-13 IRRIGA L-13 IRRIGA	Vay Line Marker Vay Line Marker Vay Line Marker Access Line Access Line Fe Fence k Fence Line C C C C C C C C C C C C C		
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2012 NCDOT STANDARD SPECIFICATION PREPARED IN THE OFFICE OF: NCDOT- ROADSIDE ENVIRONMENTAL UNIT LANDSCAPE DESIGN & DEVELOPMENT SECTION		DATE	DESCRIPTION		
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2012 NCDOT STANDARD SPECIFICATION PREPARED IN THE OFFICE OF: NCDOT- ROADSIDE ENVIRONMENTAL UNIT LANDSCAPE DESIGN & DEVELOPMENT SECTION					
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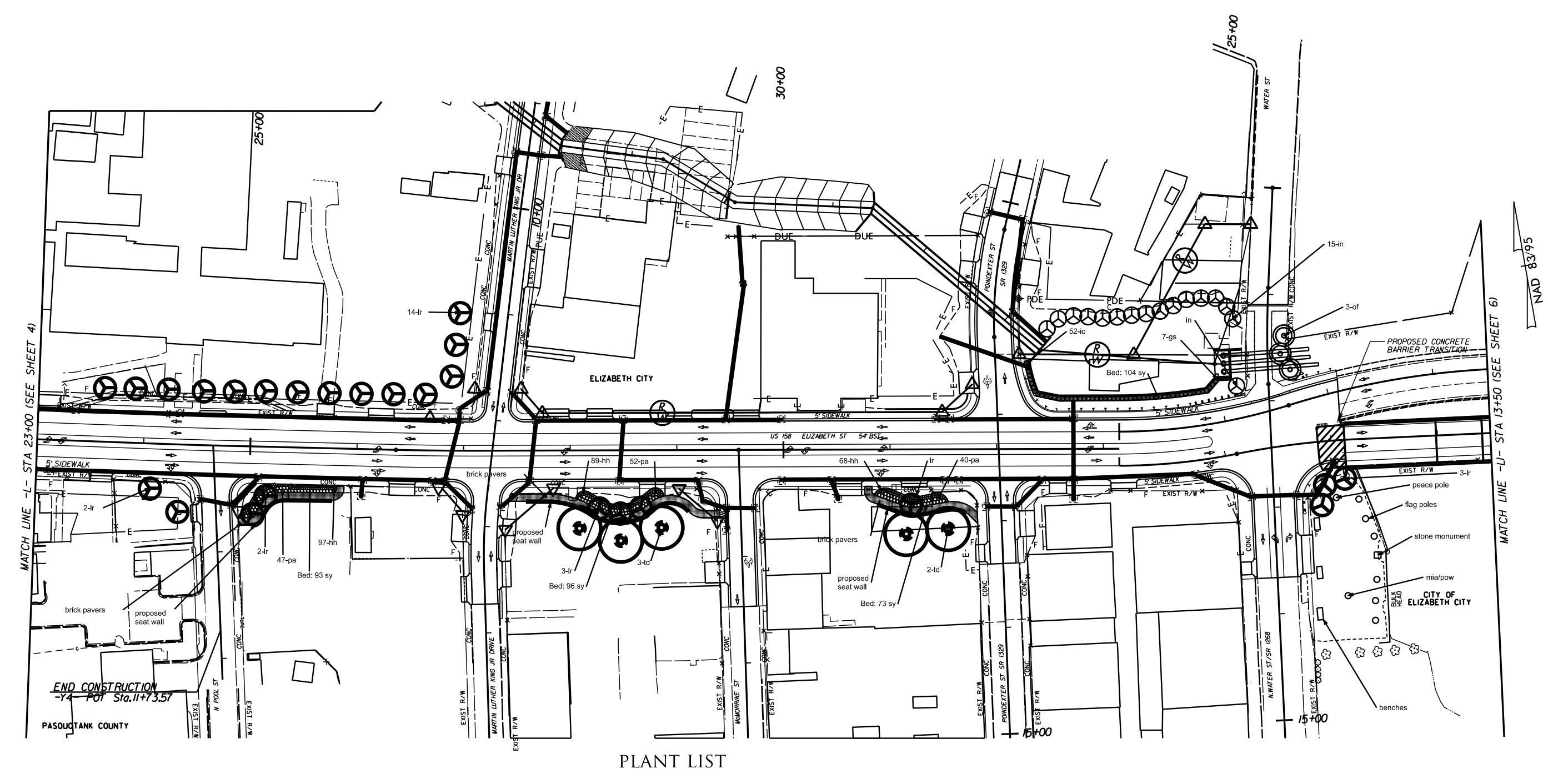


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QTY	Key	BOTANICAL NAME
986	HH	Hemerocallis 'Happy Returns'
32	LR	Lagerstroemia indica 'Red Rocket'
177	NP	NARCISSUS PSEUDONARCISSUS 'CARLTON'



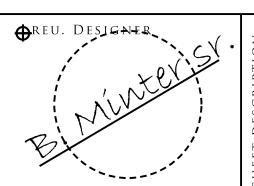


* NOTE: ALL PLANT BED ADJUSTMENTS MUST BE APPROVED BY DIVISION ROADSIDE ENGINEER



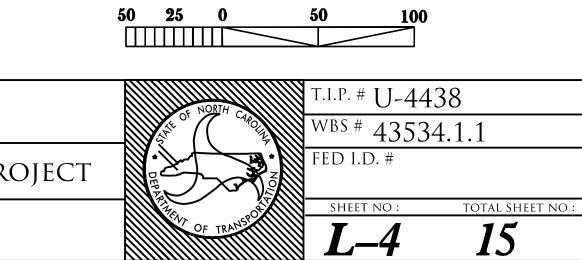
NCDOT - ROADSIDE ENVIRONMENTAL UNIT landscape design & Development 1557 mail service center raleigh nc 27699-1557 ph: 919-707-2935 fax: 919-715-2554 HTTP://WWW.NCDOT.ORG/DOH/OPERATIONS/DP_CHIEF_ENG/ROADSIDE/

US 158 / US 17 BUSINESS Pasquotank County TIP #: U-4438

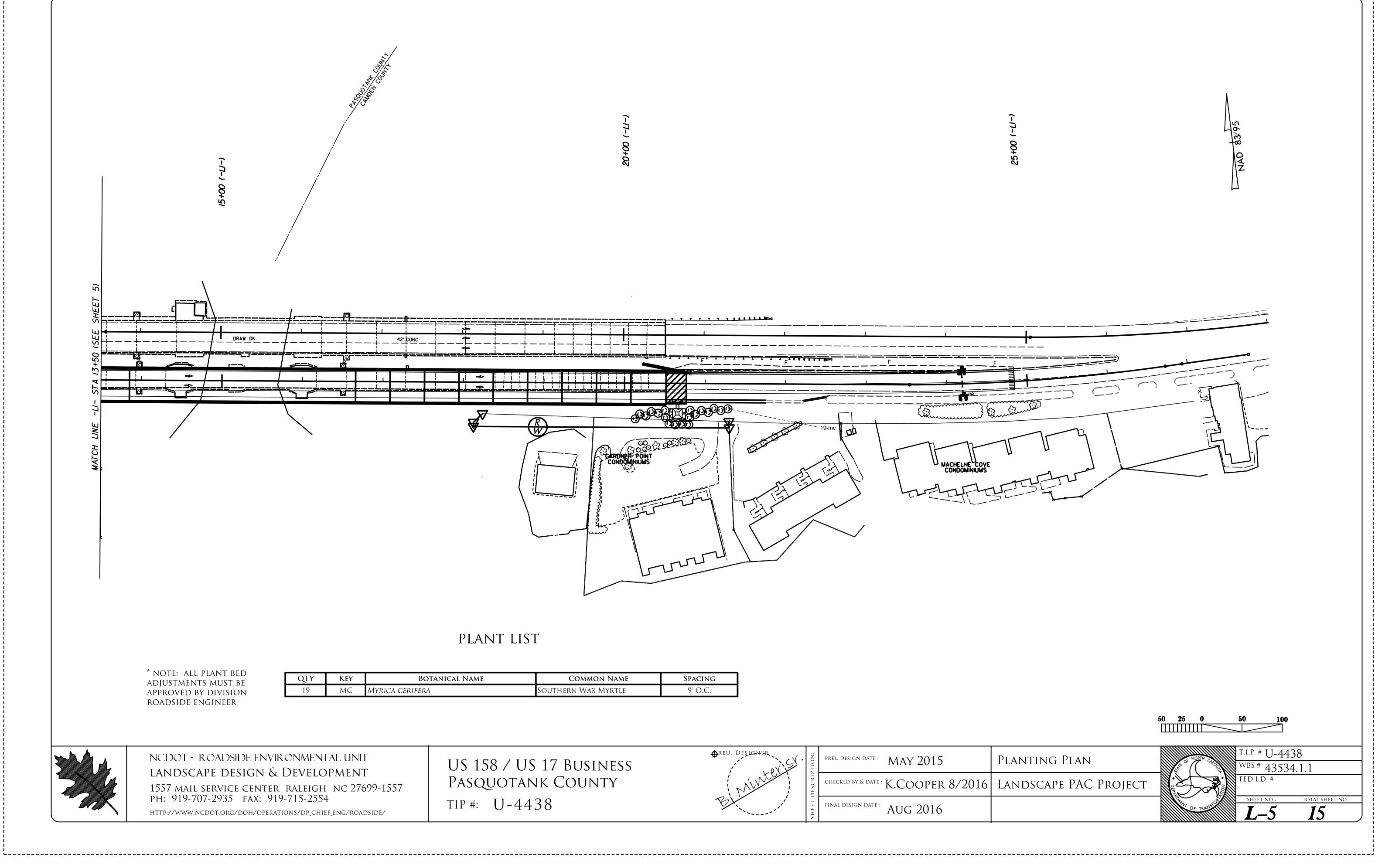


prel. design date : MAY 2015 CHECKED BY & DATE : K.COOPER 8/2016 | LANDSCAPE PAC PROJECT FINAL DESIGN DATE : AUG 2016

QTY	Key	BOTANICAL NAME	Common Name	Spacing
7	GS	Gelsemium sempervirens	Carolina Jessamine	2' O.C.
254	НH	Hemerocallis 'Happy Returns'	HAPPY RETURNS DAYLILY	2' O.C.
52	IC	Ilex cornuta 'Carissa'	Carissa Holly	4' O.C.
16	IN	ILEX X 'NELLIE R. STEVENS'	Nellie Stevens Holly	14' O.C.
25	LR	Lagerstroemia indica 'Red Rocket'	RED ROCKET [®] CRAPE MYRTLE	As Shown
3	OF	Osmanthus x 'Fortunei'	Fortune's Tea Olive	17' O.C.
139	PA	Pennisetum alopecuroides	Fountain Grass	3' O.C.
5	TD	Taxodium distichum	BALDCYPRESS	40' O.C.



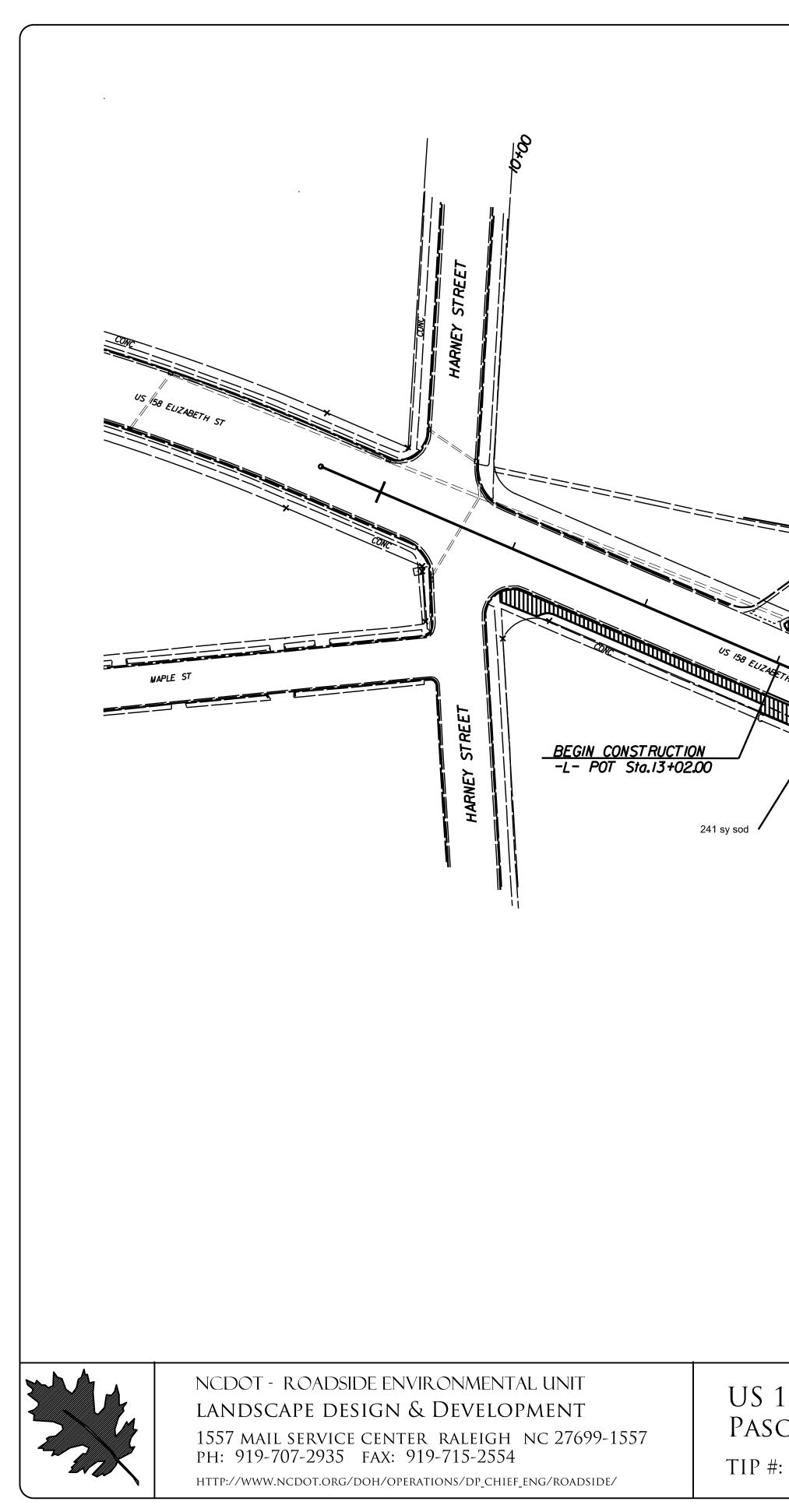
Planting Plan



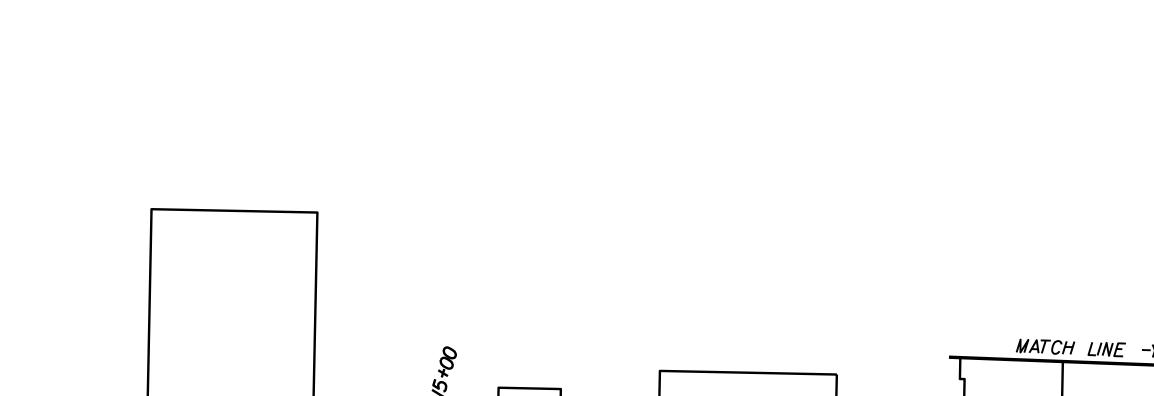
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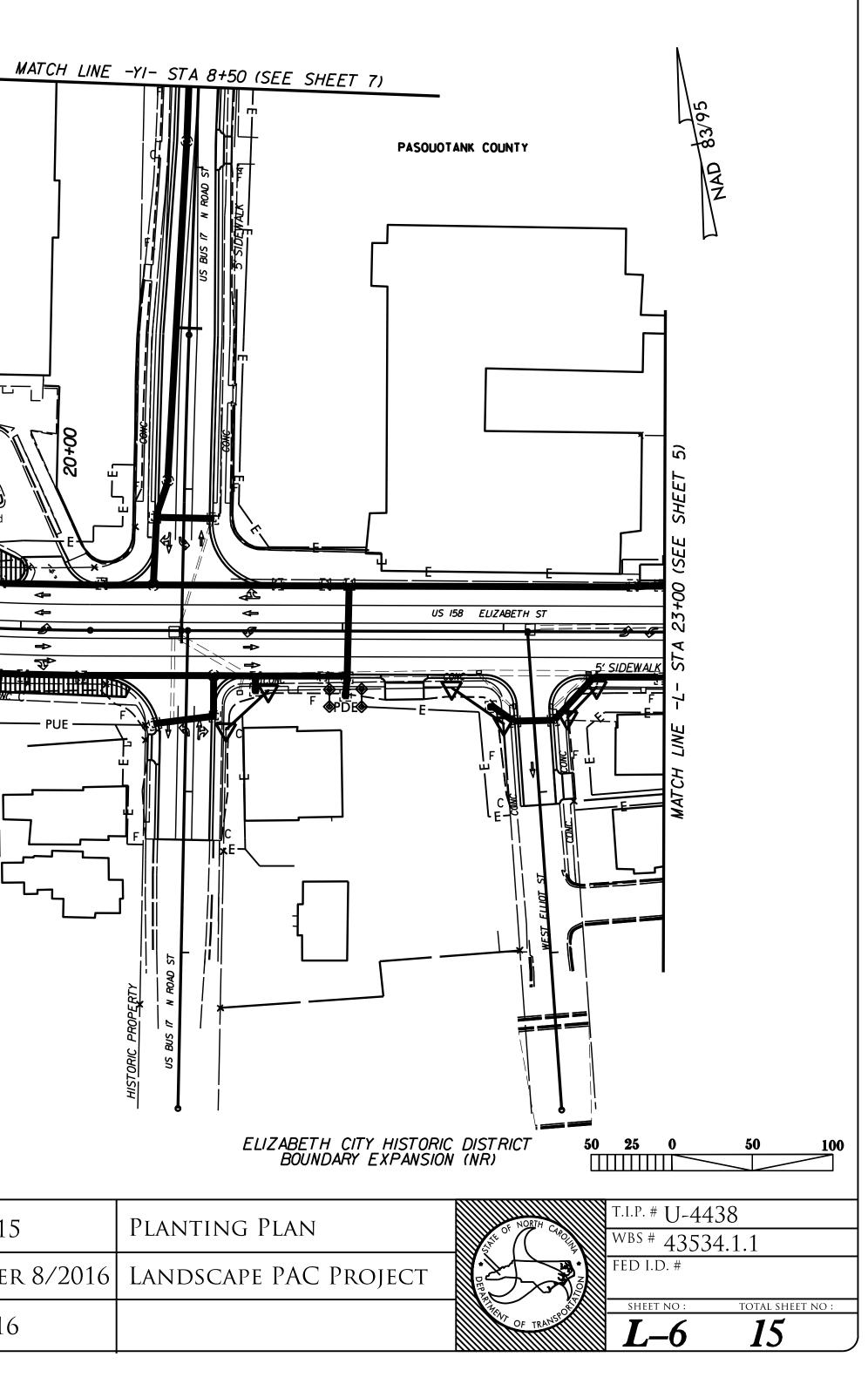
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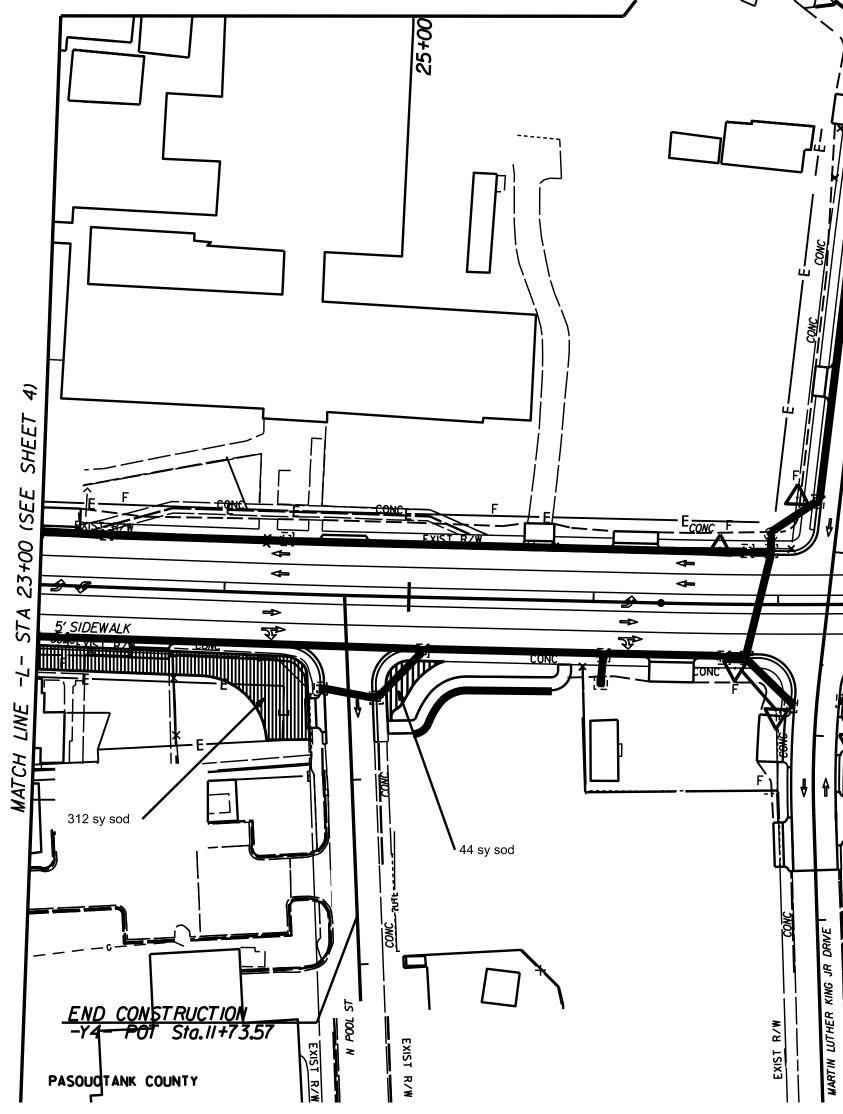
ME	Common Name	Spacing
	Southern Wax Myrtle	9' O.C.



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 NCDOT - ROADSIDE ENVIRONMENTAL UNIT LANDSCAPE DESIGN & DEVELOPMENT 1557 mail service center raleigh nc 27699-1557	US 158 / US 17 Business Pasquotank County	OREU. DESLGNER	ZOTATE PREL. DESIGN DATE : MAY 2015 CHECKED BY & DATE : K.COOPER 8/2016	Planting Plan6Landscape PAC Project	T.I.P. # U-4438 WBS # 43534.1.1 FED I.D. #





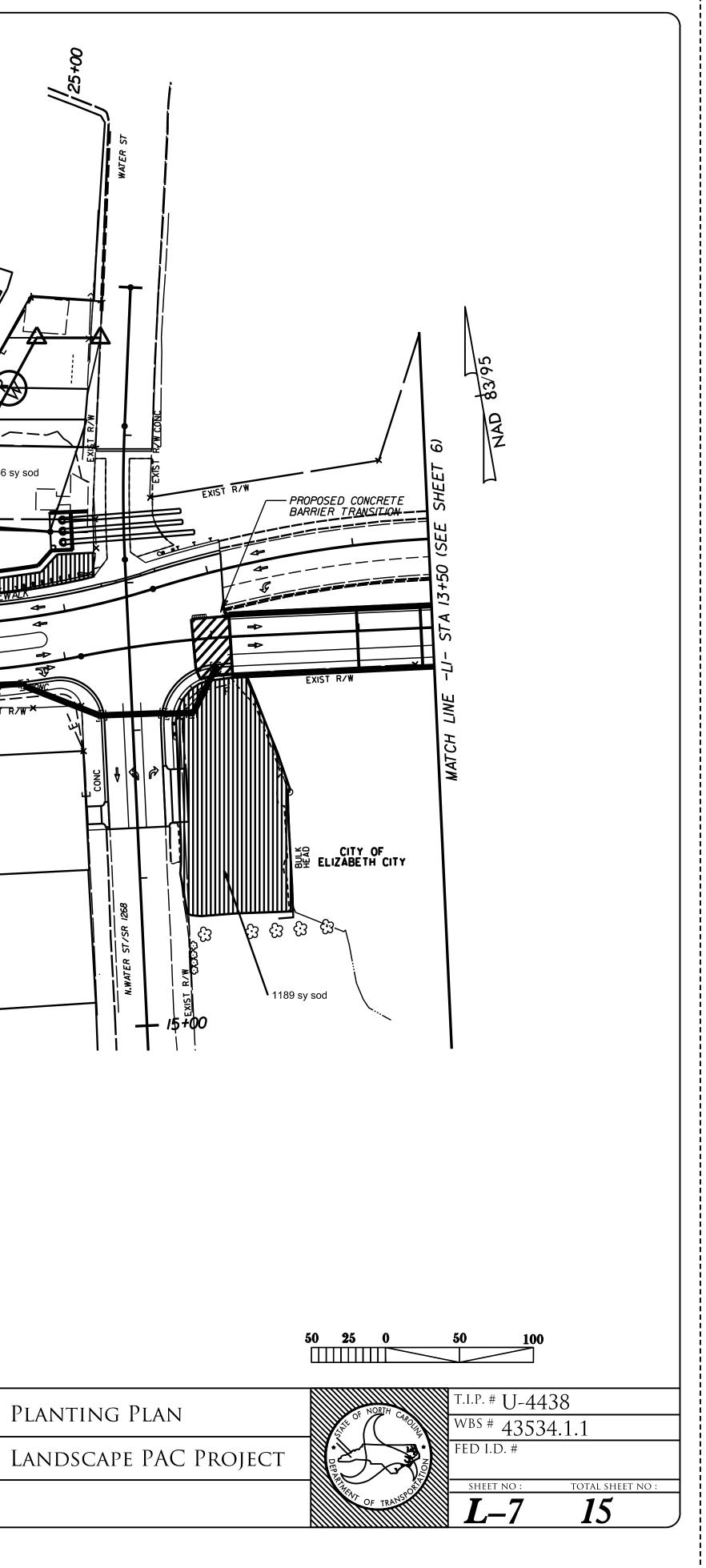


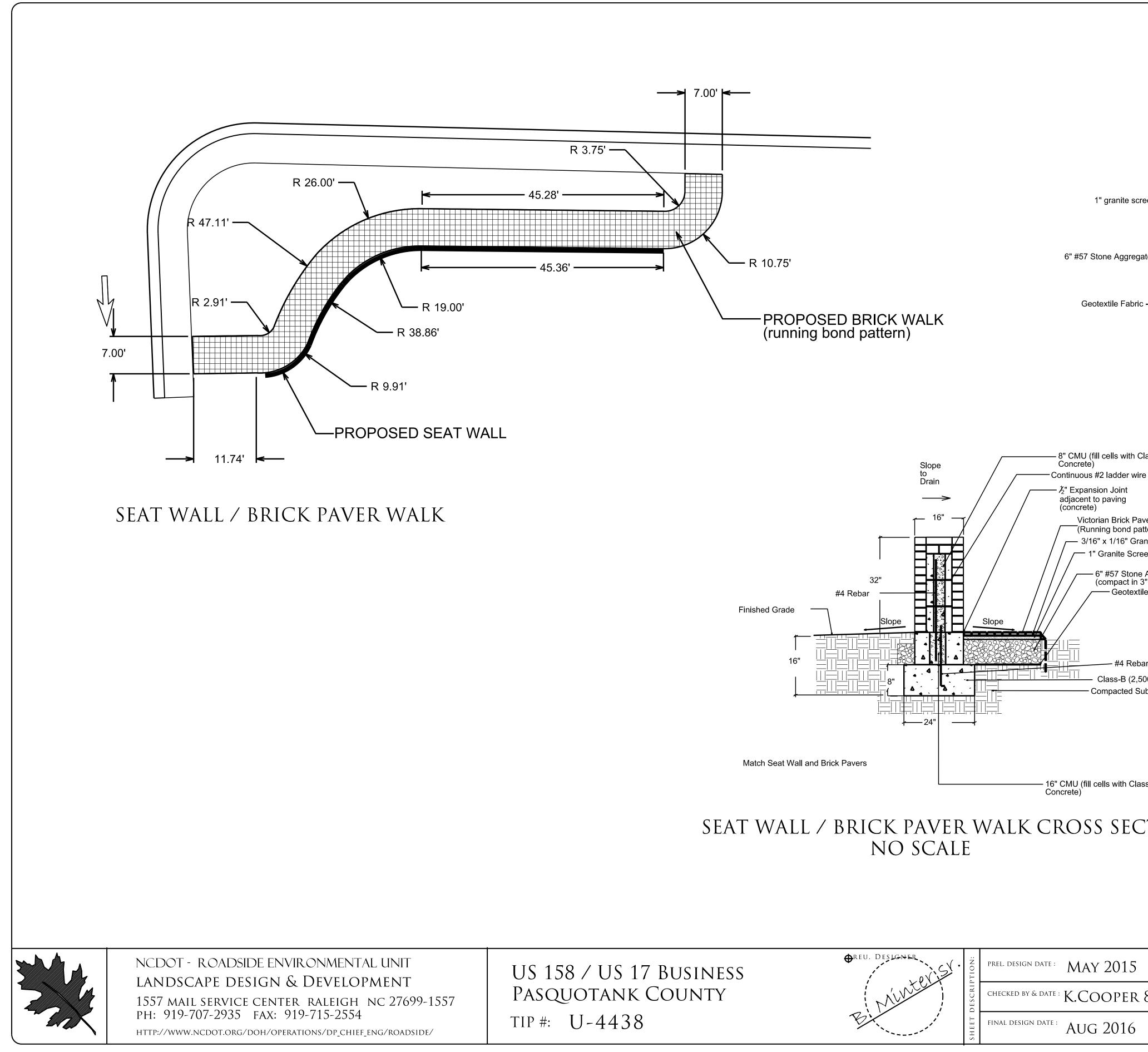


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PROPOSED SOD LOCATIONS

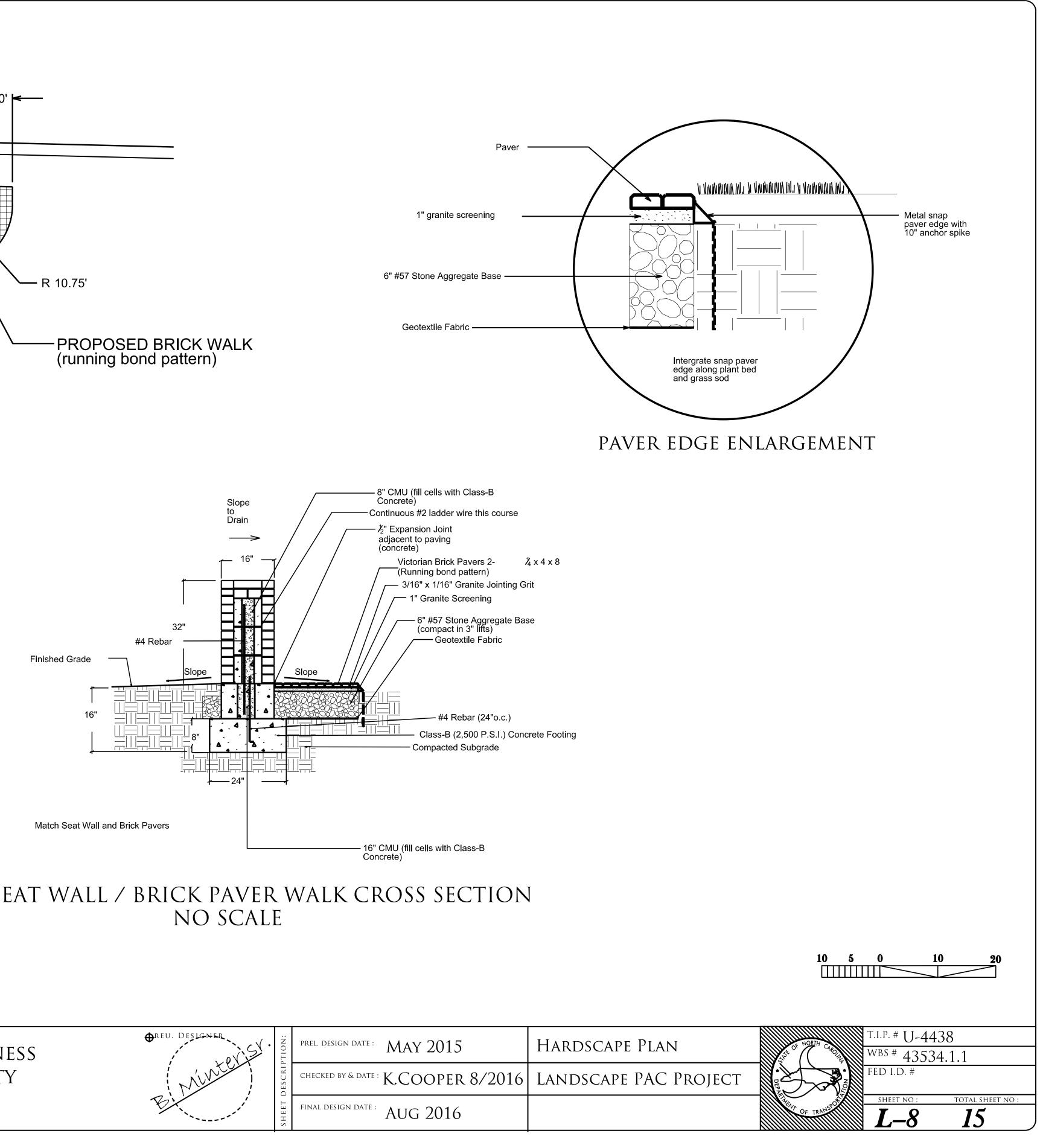
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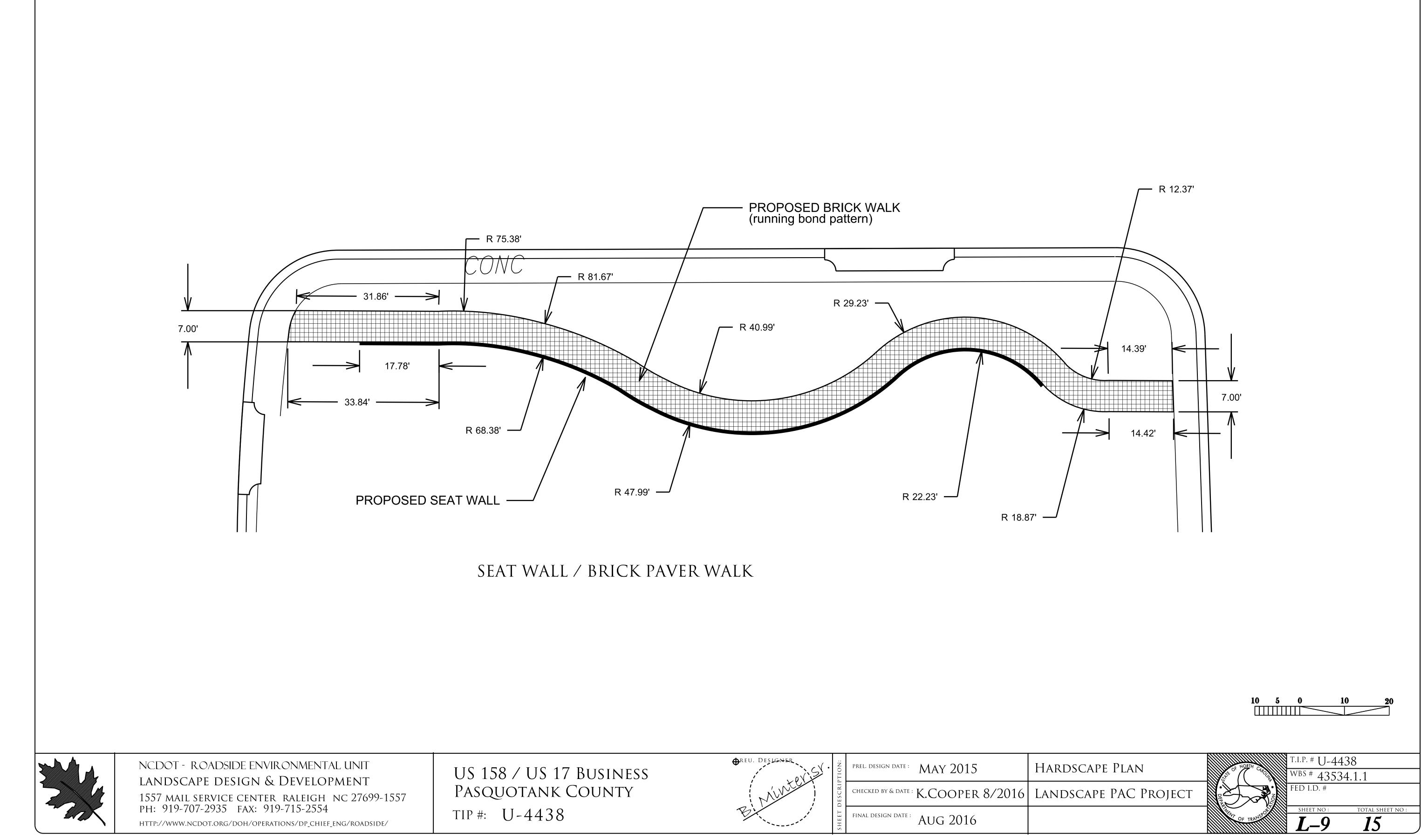




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SEAT WALL / BRICK PAVER WALK CROSS SECTION

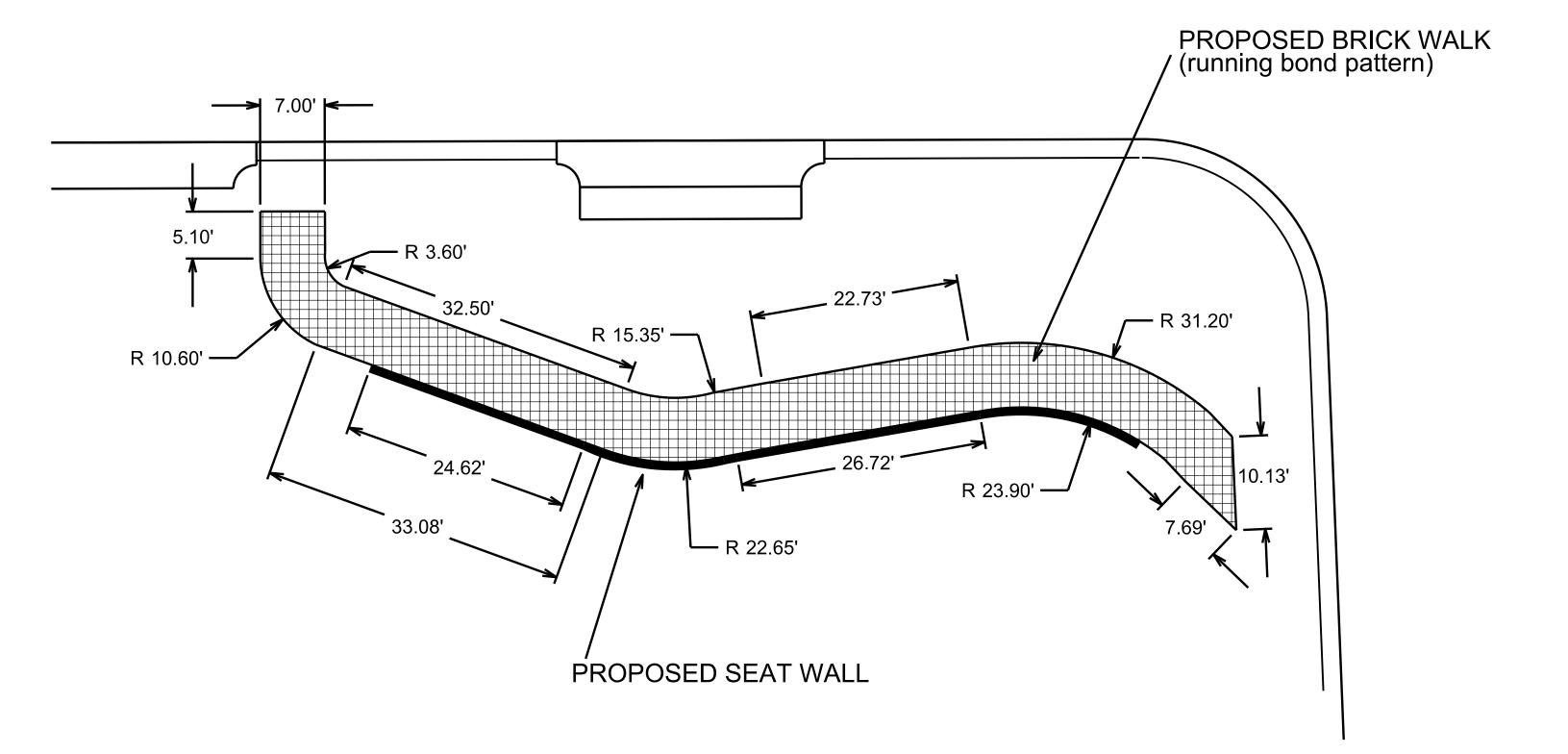


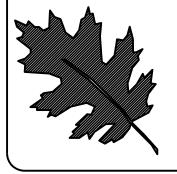


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SEAT WALL / BRICK PAVER WALK

.58 / US 17 Business Quotank County	PREU. DESLGNER	PREL. DESIGN DATE : Checked by & date :	HARDSCAPE PLAN Landscape PAC Project		T.I.P. # U-4438 WBS # 43534.1.1 FED I.D. #
U-4438	BHEET DES			TRANSO	sheet no : total sheet no : L-10 15

PLEASE NOTE: ALL IRRIGATION CONTRACTORS MUST BE A LICENSED TO PERFORM WORK ASSOCIATED WITH CONSTRUCTION OR CONTRACTING IRRIGATION SYSTEMS.

NOTES & LEGENDS

HEADS: (MAY BE OF COMPARABLE MANUFACTURE AND PERFORMANCE TO

OAD - TORO SERIES 570 PRX-6P POP UP - 6" POP UP SPRINKLER HEAD

FITTED WITH PRECISION SPRAY 570 SERIES SPRAY NOZZLE □ □ □ → - TORO SERIES SUPER 800 CKE - 5" POP UP SPRINKLER HEAD FITTED WITH PRECISION SPRAY SUPER 800 SERIES SPRAY NOZZLE

> - ALL HEADS WITH A 12" POP UP STROKE, IF INSTALLED WITH LESS THAN 1/3 OF THE SPRINKLER BODY EXPOSED ABOVE GRADE, SHALL B INSTALLED ON POLYETHYLENE FLEX SWING JOINTS POLY PIPE FITTED WITH (3/8" INSERT BY ½" M.P.T. AND /OR¾" INSERT BY¾" M.P.T.) ELBOWS. IF GREATER THAN 1/3 OF THE SPRINKLER BODY IS EXPOSED THEN THE 12" POP -UP HEAD SHALL BE MOUNTED ON A SCH 40 PVC PIPE RISER AS DESCRIBED BELOW IN RELATION TO MOUNTING SHRUB HEAD MODELS. IN MOUNTING 12" POP UP HEADS ON SHRUBS RISERS CARE SHALL BE TAKEN TO INSTALL THE HEAD IN SUCH A MAN THAT SURROUNDING PLANT MATERIAL (PLANNED OR EXISTING) WII THE BODY OF THE SPRINKLER.

> - ALL POP UP IRRIGATION HEADS DESIGNED ADJACENT TO CURBS OR PAVEMENT SHALL BE INSTALLED WITH A CLEARANCE OF 1 ${
> m
> m J}_2^{"}$ from T EDGES OF ALL PAVED AREAS TO PROVIDE FOR EDGING AND MAINTEN OPERATIONS. HEADS INSTALLED ON SHRUBS RISER OR WITH THE TO THE HEAD MORE THAN atled '' above grade shall be installed with MINIMUM 6" CLEARANCE FROM PAVED AREAS.

> - ALL THREADED PIPE CONNECTIONS SHALL BE ASSEMBLED USING TEFLON THREAD SEALING TAPE. - ALL HEADS MOUNTED IN THE LAWN AREAS SHALL BE MOUNTED ON POLYETHYLENE PIPE FLEX SWING JOINTS COMPOSED OF MODEL #850-¾" I.D. POLY PIPE FITTED WITH #850-31 (3/8" INSERT BY ½"

M.P.T.) AND / OR #850-32 (3/8" INSERT BY ¾" M.P.T.) ELBOWS.

PIPE:

- DENOTES ROUTES OF PR 200 PVC LATERAL PIPING. SIZE OF LATERAL PIPING SHALL BE AS NOTED BELOW. MINIMUM DEPTH OF COVER OVER LATERAL PIPING TO BE 12"

LATERAL PIPING SIZING SCHEDULE;

SUMMATION OF GALLONAGE DEMAND ON THE PARTICULAR BRANC PIPE WITHIN A CONTROL SECTION SHALL BE DETERMINED BY USING GPM FOR A NOZZLE BASED ON A 50 PSI BASE OF HEAD PRESSURE AND FULL RADIUS AT THAT PRESSURE AS REPORTED IN THE TORO 2010 IRRIGATION PRODUCTS CATALOG. PIPE SIZES FOR THE LATERALS SHA BE AS FOLLOWS:

ZERO TO FIFTEEN GPM ACCUMULATED FLOW USE 1½" PR 200 PVC PIPE GREATER THAN FIFTEEN UP TO THIRTY -FIVE GPM USE 1 $at{2}$ "PR 200 PVC FRICTION LOSS ALLOWANCES FOR THIS PROJECT HAVE BEEN DETERM USING THE ABOVE FLOW RANGES AND DEMANDS

- DENOTES ROUTE OF PR 200 MAIN LINE PIPING.

- SIZE OF PIPE TO BE 2" IN MINIMUM - DEPTH OF MAINLINE PIPING TO BE 18" MINIMUM

- PIPING SHALL BE PR 200 SOLVENT WELD PVC PIPE WITH SCHEDULE 40 PVC SOLVENT WELD FITTING UNLESS OTHERWISE NOTED. - ALL PIPING RUNS SHALL BE "SNAKED" IN THE TRENCH DURING INSTALLATION TO PREVENT EXCESSIVE STRAIN DUE TO THERMAL

EXPANSION OR CONTRACTION. - THE CONTRACTOR SHALL TAKE ALL PRECAUTIONS NECESSARY TO A DAMAGING PLANTINGS (INCLUDING ROOTS) DURING INSTALLATIO IRRIGATION SYSTEM AND SHALL COORDINATE HIS EFFORTS WITH LANDSCAPE CONTRACTOR SO AS TO OPTIMIZE THE EFFICIENCY AND THE AESTHETIC QUALITY OF THE INSTALLATION

DRIP IRRIGATION:

18" EMITTER SPACING INTERVALS AT 1 GPM EMITTERS IN LINE. - LOCATION OF TORO NETAFIM TECHLINE ½" P.E. TUBING. NETAFIM (MODEL# TLDL-9-1810) TECHLINE, OR COMPARABLE, TO BE MULCH IN LANDSCAPE AREAS AS SHOWN ON THE IRRIGATION PLAN - LOCATION OF DRIP VALVE ASSEMBLY WHICH INCLUDES TORO TPVF SERIES REMOTE CONTROL VALVE WITH FLOW CONTROL FEATURE, NETAFIM 200 MESH FILTER #DF150-140, AND NETAFIM PRESSURE REGULATOR #PVR15045. FLOW CONTROL VALVES SHALL BE AS NOTED ON BOXES WITH LIDS MOUNTED AT GRADE LEVEL.



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US 158 / US 17 Business Pasquotank County TIP #: U-4438

IRRIGATION NOTES

	HEAD RADII: - THE IRRIGATION CONTRACTOR SHALL ADJUST THE RADIUS AND THROW of Each Sprinkler Head to provide optimum coverage while minimizing over Spray onto Hardscapes or Buildings. Adjust Heads to Eliminate DRY Spots. - Approximate ARC and Radius of Individual Sprinkler Head Coverage Shall be as Illustrated. Individual Head or Nozzle Model Numbers May be dependent upon These Specific Characteristics
Brand Named)	VALVES: (MAY BE OF COMPARABLE MANUFACTURE AND PERFORMANCE TO BRAND NAMED)
E D	- LOCATION OF ELECTRIC 24 V.A.C. REMOTE CONTROL VALVE WITH FLOW CONTROL FEATURE (MODEL # TPVF100DC SOLENOIDS). SIZE OF ZONE CONTROL VALVES TO BE AS NOTED ON THE IRRIGATION PLANS. - ALL IN -LINE REMOTE CONTROL VALVES SHALL BE INSTALLED IN Carson valve boxes with LIDS mounted at grade level. Single Valves may be installed in Carson model #910-1 valve box with #910-2 cover, while multiple valves (up to, two 1" valves or ONE, 1-1/2" Shall be installed in Carson model #1419-1 box with #1419-2 cover
HEDULE	
G S TYPE	BACK FLOW PREVENTION:
INER LL HIDE R HE Nance OP of A	- THE BACK FLOW PREVENTER WILL BE PROVIDED BY THE TOWN OF ELIZABETH CITY. THE BACK FLOW SHALL BE 2" IN SIZE. THE BACK FLOW ASSEMBLY SHALL BE INSTALLED DOWN STREAM OF THE IRRIGATION METER. THE UNIT MUST BE INSTALLED IN ACCORDANCE WITH ALL LOCAL AND STATE CODE REQUIREMENTS AND SHALL HAVE APPROVED COVER.
	WATER SUPPLY:
N TORO I-01	CONTRACTOR SHALL TAP EXISTING WATER METER (2") PROVIDED BY THE TOWN OF ELIZABETH CITY.
	THE METER IS 2" IN SIZE. SINCE THE WATER SUPPLY FOR THE SYSTEM SHALL BE Potable water, the contractor will be required to install Back flow prevention device which will be located downstream of The irrigation meter.
HES OF G The D	THIS IRRIGATION SYSTEM SHALL BE CAPABLE OF DELIVERING 30 GPM Minimum with one control station operating at a time at 60 pSI at the base of the head for optimum performance of the irrigation system.
E C	CONTROLLER:
PIPE MINED	 - LOCATION OF IRRIGATION CONTROLLER. THE CONTROLLER SHALL BE CUSTOM COMMAND (TORO TMC-424E SERIES) SOLID STATE UNIT -APPROXIMATE LOCATION SHOWN ON THE PLAN -ELECTRIC CONTROLLER IS TO BE PLACED IN CARSON VALVE BOXES MODEL #910-1VALVE WITH #910-2 COVER - LOCATION OF CONTROLLER ELECTRICAL SOURCE(TIE-IN) TO BE DETERNINED BY THE CITY.
	<u>SLEEVING</u>
IVOID N OF THE The	SLEEVES SHALL BE 3" PVC FOR 24 VAC WIRING PER ELECTRICAL CODE. The Irrigation contractor shall coordinate the installation of the Irrigation system with the landscape contractor to Insure proper installation of both the irrigation system with The landscape and hardscape
	THE LANDSCAPE AND HARDSCAPE
NSTALLED UNDER F100DC	THE IRRIGATION SYSTEM IS DISPLAYED SCHEMATIC IN NATURE. The Irrigation contractor may be required to make minor adjustments in the field. These minor adjustments shall be made at no additional cost to the owner but shall be made only after notification is made to owner. (NC dot) - The contractor shall familiarize himself with the site so that he is aware of any special conditions
	WHICH EXIST THAT MAY AFFECT HIS BID

GREU. DESLG-NER

PROPOSAL AND SHALL THEREAFTER BE

RESPONSIBLE FOR ALL COST INCURRED

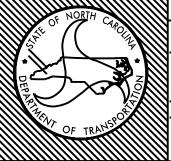
BY HIMSELF IN RELATION TO THE

INSTALLATION.

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RRIGATION NOTES

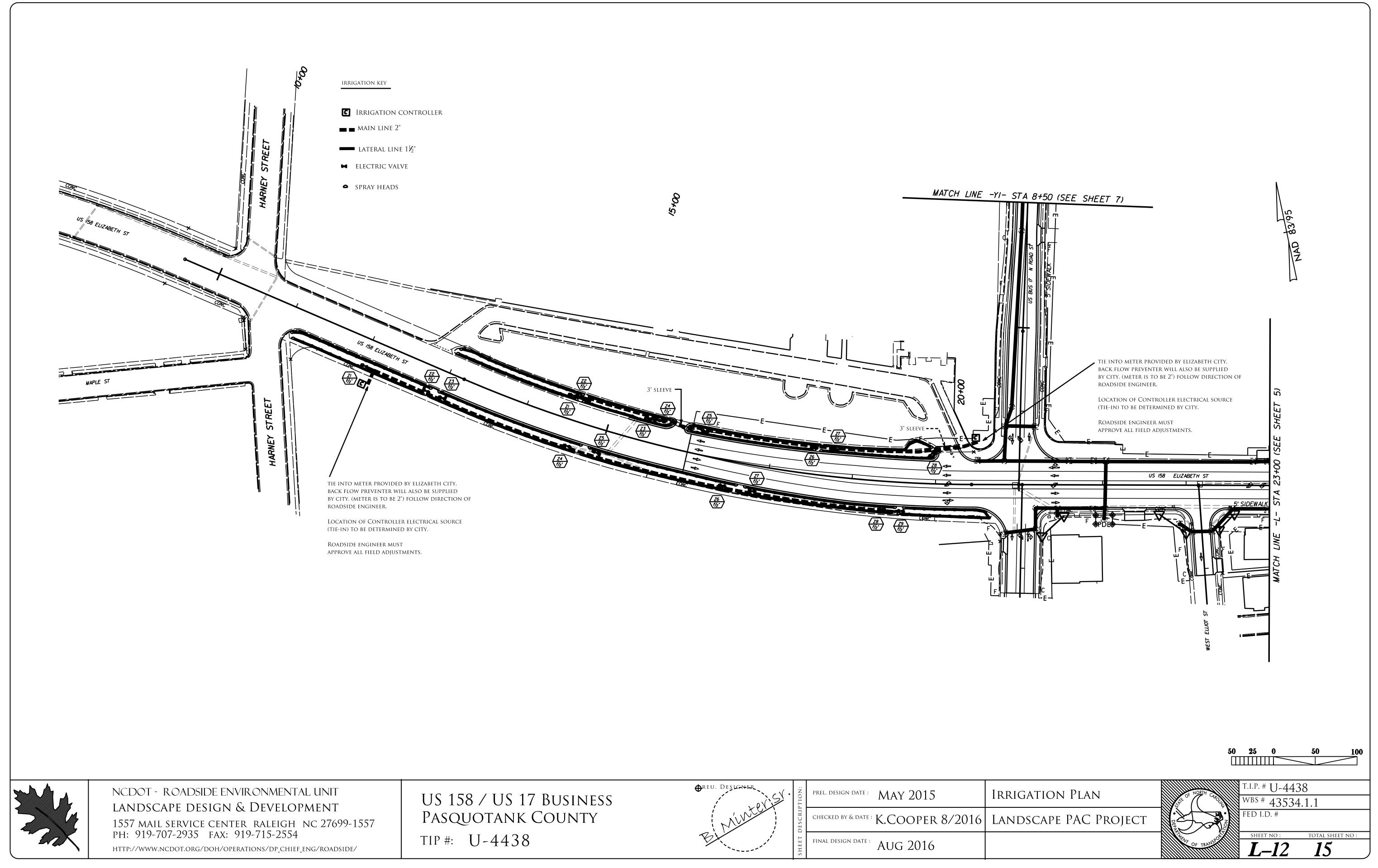
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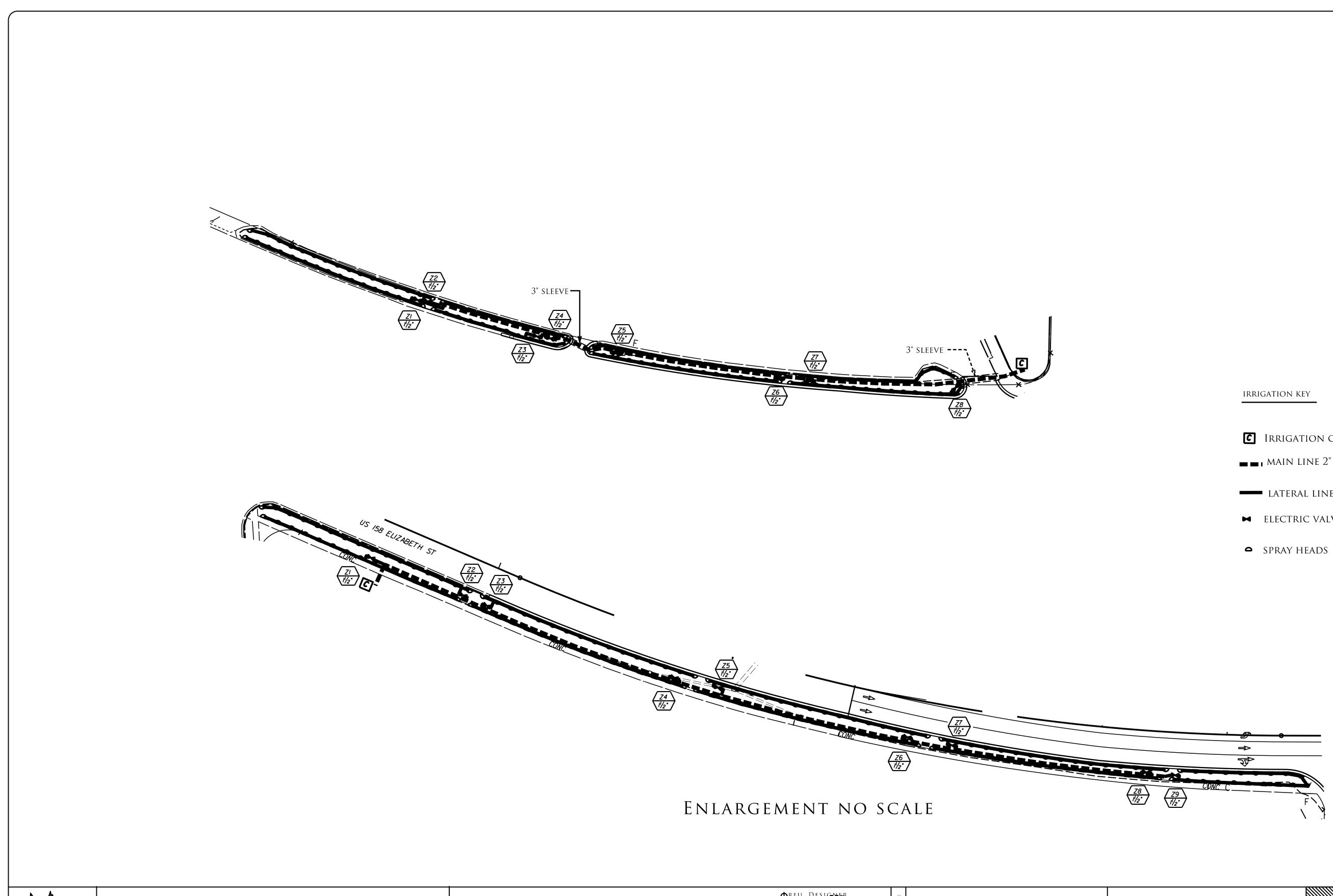
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TOTAL SHEET NO : 15



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C IRRIGATION CONTROLLER

LATERAL LINE 1½"

► ELECTRIC VALVE

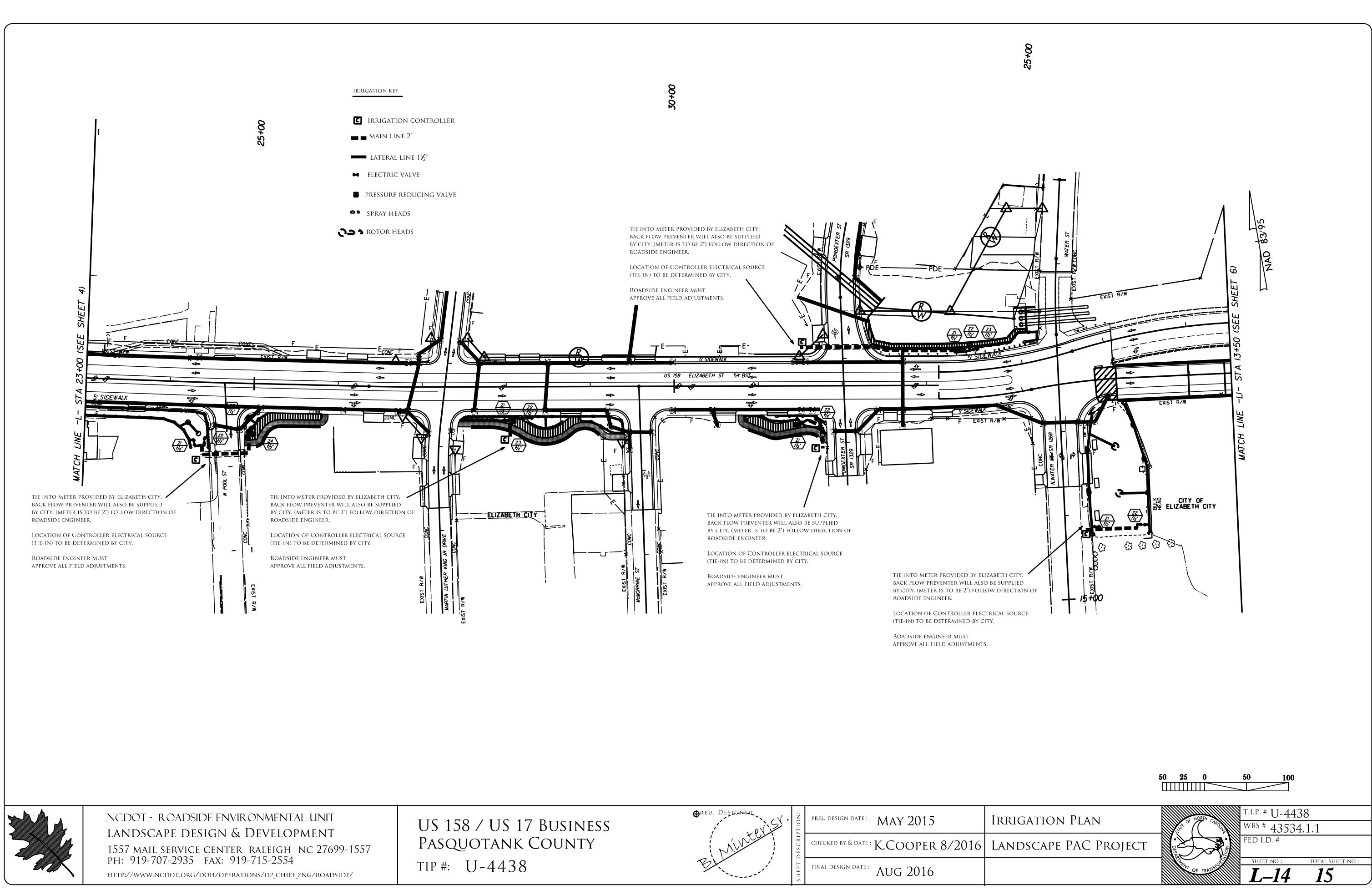


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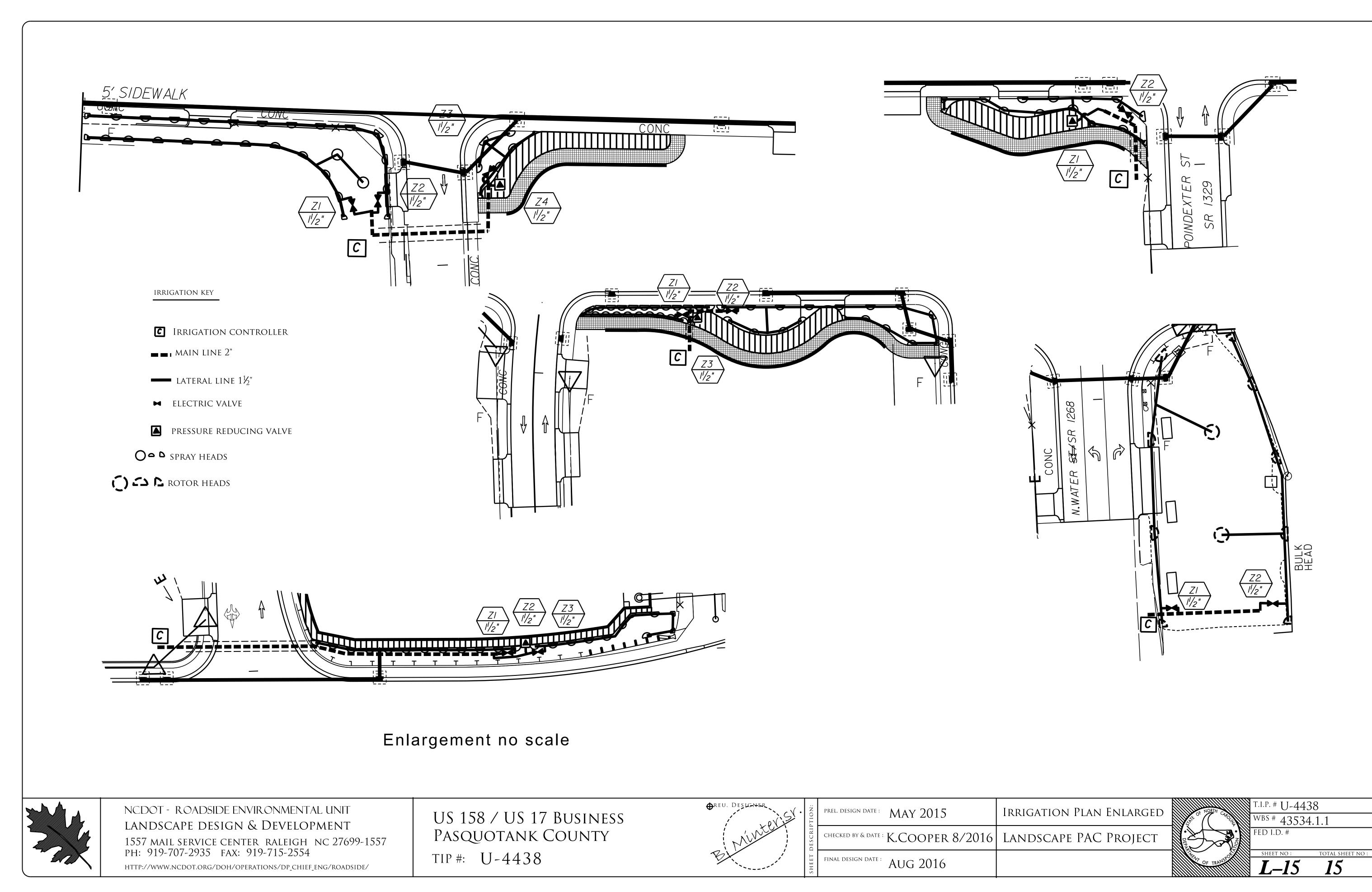
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